

Box 26

Folder 10

1952

A

Box 40

VARIOUS FIELD NOTES / ARTICLES

012

Richard S. MacNeish

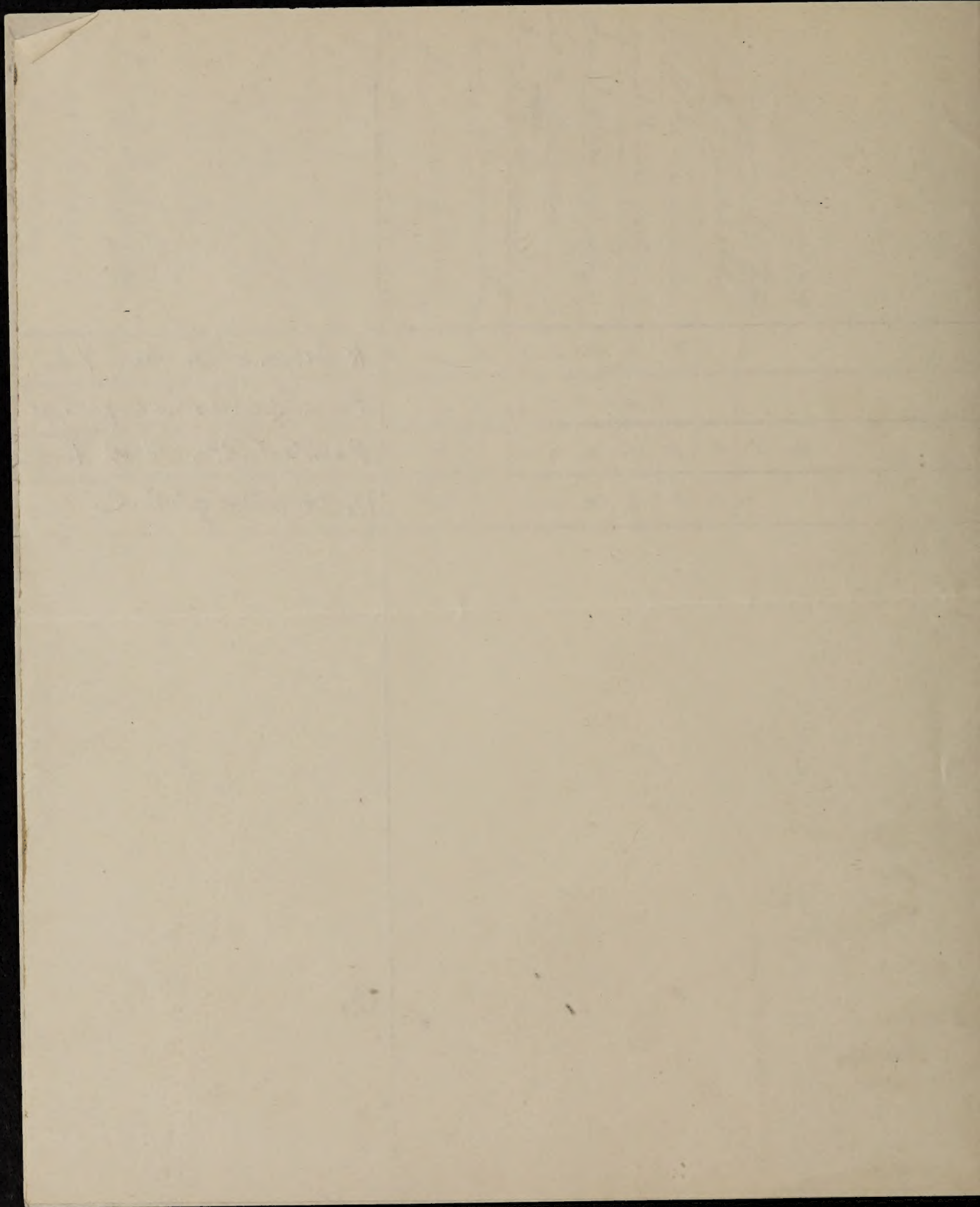
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Box

40

No

012

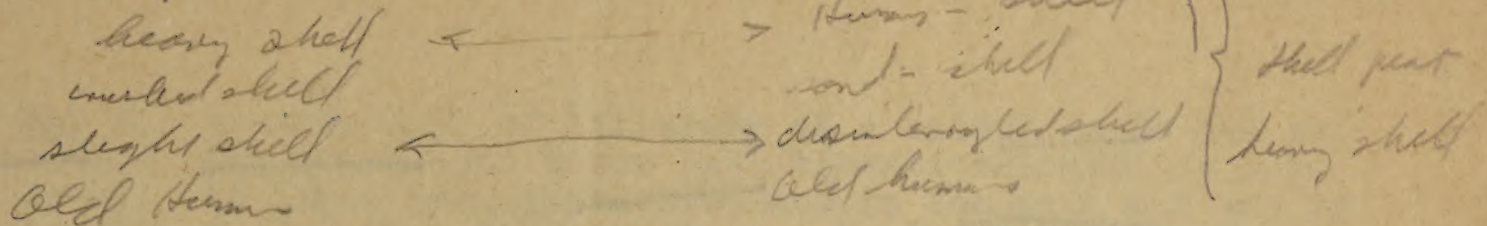


Geography

West Bluff

East Bluff

Old Beach



Sequence

Late - no slennat points, mainly tri - no chipped stone
scraps. - slate points, wedges, adze

Maritime - sea economy - leaf slennat points & tri
more chipped ulus - slate on the increase - tri leaf
slennat ground points, slate knives, perforated anchors
& new forms of net sinkers. - small bone points, fish
hook harpoon points - bone needles, spindle whorls
bone wedges, clay slab beads, ceramic beads

Development - use of shell - chipped leaf but too coarse in
as do slennat points & barbed points
chipped ulus appear, slate knife - perforated stone, sinkers
socketed harpoon head, bone knives, stone slab
structure

Island - Island animal bone - leaf shaped chipped stone
like Anheir - 9 of 64 distribution of Island
16 of 64 of all 4
39 of 64 of first 3

Sites in Manitoulin District, Ontario,
observed, collected from or excavated
by University of Michigan.

ch
Killarney Bay 1. 2 miles N.W. of Killarney on a raised beach the top of which is 27.3 feet above Lake Huron (all elevations based on lake levels of 1940). At least two components, one in top soil and one in fine gravels from 2 to 6 feet below surface. In the gravels: Middlesex focus ~~with Adena affinities~~ with Adena affinities. Pottery large, conoidal base, thick, undecorated. Projectile points stemmed, and unnoted leaf-shaped rounded base, and elliptical, double-pointed. End scrapers, 1 specimen, over 1½ inches long. Slate gorgets, oval, perforated, and rectangular with indented sides. All material out of original position, brought to its position by wave action. In the topsoil: Point Peninsula focus of the Vine Valley. Pottery, Vinette 2 types including dentate stamp and pseudo-scallop. Smaller, and with thinner walls. No whole pots found. Projectile points mainly expanded stem, one small "turkey-tail" about 2 inches long, flake surface on one face. End scrapers abundant, small, mostly under 1 inch diameter, various outlines, some flat, some keeled. Choppers, slate, without ground edge, and flaked celts with ground edge. One small tip of one bone awl, and that's all. No other bone material, as artifacts. In both the topsoil and waterlaid (in the gravel) components, there are both flint and quartzite implements, but flint is by far the most abundant. Arising out of this sandy beach was a burial mound, dug some fifty years ago by Prof. Bell of Toronto. There were two other mounds on a bluff about 300 from this mound. After Bell dug the mound on the beach it was converted into a root cellar. This was abandoned about 1943, and was re-excavated by Greenman from 1946 onward. Though it is a mound, the material seems to be describable as Point Peninsula. Seven burials have been found so far, from 3 to 5 feet below the original base of the mound, i.e., the surface of the beach. Near one burial, but apparently beyond the original border of the mound was found part of a blocked-end tubular pipe, which of course is Middlesex-Adena. With the burials were found rectanguloid copper axes, some wrapped in folds of beaver hide with the fur still present; Large stemmed or notched flint blades, finely made, 6-8 inches long; spheroidal copper beads, and conoidal copper beads; Larger numbers of "cache" blades, averaging about 3 inches long, flint and quartzite, thick, coarsely flaked, some coated with red ochre; copper spindles, 7 - 8 inches long; three spearheads about 3 inches long, flint, with parts of wooden shafts, or foreshafts, attached by lashings, and preserved by action of copper salts from adjacent celts; one side of a loosely-woven basket, preserved by copper salts. Marine conch beads, spheroidal; One leaf-shaped ovate rounded-base flint blade, thin; One large slate gorget with indented sides and two perforations found near a burial, under what must have been about the edge of the mound, or close to it. No pottery with burials. Skeletal material incomplete, as if disintegrated except that lying near copper. No observed preparation of graves.

The whole beach, about 650 feet long, is a village site, and with many pits, with sparse refuse, extending down into the gravels. Spreads of stones suggest steam bath. There are several large fragments of blades, and "turtle-backs," both quartzite and flint, which are probably unfinished specimens. Fire-cracked rocks, of the local granite mostly, are large, up to four inches cubical, and abundant.

Near the mound on the beach was found a small conoidal pestle of limestone. The other two mounds on the bluff yielded nothing. On another bluff, 16 feet above the beach, a surface find of one ground slate point, obliquely notched, indicating Laurentian.

Chickanising site 1 (CH1). Five miles from Killarney, on a sandy knoll over which the Killarney-George Lake road passes. Elevation above Georgian Bay 56 feet. At least two components, one in the top soil, another in the gravels from $1\frac{1}{2}$ feet to 6 feet below surface. The archaeological material in the gravels was brought to its position by wave action, or some type of water action, and some of the specimens, all quartzite, no flint, are rolled. Typology: Two Sandia 1 quartzite points, one from the gravel, the other apparently from a deposit of undetermined thickness below the gravel, consisting of sand. Its position in this stratum is not certain. Other types are 1 side scraper, black quartzite, a large end scraper nearly 2 inches long and wide, similar to those from Sandia Cave; 1 portion of what appears to be a slate chopper; a few quartzite blocks and fragments, worked, but unfinished, and also flakes of quartzite and slate. Topsoil typology: Quartzite blades up to six or seven inches long, apparently unfinished, rounded base, curved edges; one unfinished slate gorget, indented sides; expanded stem points, flint, and also corner-notched, 3 inches long; hammerstones; choppers, rectanguloid, and celts with ground edges, rectanguloid. No pottery.

Other material has come from the surface of the road, which has cut down into the site as much as two feet. Among this are two gravers of the Folsom type, quartzite. Presumably these were from the gravel. The unfinished slate gorget is not certain. It may be a pestle-like form, of which there are others from the topsoil and road. In the topsoil are refuse pits, and hearths, and also spreads of stones suggesting steam bath. Abundant fire-cracked rocks, cubical, and averaging two inches cubical, or less.

This site was apparently awash three times, as the water receded from the Algonquin stages, again on the way up to the Nipissing, and again on the way down to the present level. The topsoil component would have been deposited the last time. As to the Sandia-like material in the gravels, presumably the first time. Large boulders, as much as 500 lbs. weight, lie on top of the gravel layer containing one Sandia like point, and the other point was either in this gravel, or beneath it in the aforementioned deposit of sand.*

No bone material of any kind has been found on the site. There is cultural material in the sub-soil, which is likewise sand, and lies between the bottom of the topsoil and the top of the gravel. But this material is made up of flakes and other amorphous pieces, all light, and possibly picked up by wave action from the gravel as the beach was built up.

Last summer the gravel, with the boulders on its surface, was interpreted as glacial outwash. But the geologist here, Zumberge, after being told the details, is of the opinion that it is not outwash, or delta, but beach, and that the sandy knoll is a spit made by wave action. However he is going to see it personally next June

* The Sandia-type points are slightly rolled, and some of the other material from this gravel layer heavily rolled. This makes it probable that the material was deposited at the same time, or previously, to the formation of this gravel layer, and the heavy boulders at the termination of that process, or later. The tips of both Sandia-type points are missing.

Quartzite also (CHI). Five miles from Killarney, on a sandy knoll over which the Killarney-George Lake road passes. Elevation above Georgian Bay 55 feet. At least two components, one in the top soil, another in the gravel from 1 1/2 feet to 6 feet below surface. The archaeological material in the gravel was brought to its position by wave action, or some type of water action, and some of the specimens all quartzite, no flint, are rolled. Typology: Two Sandia I quartzite counts, one from the gravel, the other apparently from a deposit of undetermined thickness below the gravel, consisting of sand, its position in this stratum is not certain. Other types are I side taper, black quartzite, a large end scraper nearly 5 inches long and wide, similar to those from Sandia Cave; I portion of what appears to be a slate chopper; a few quartzite blocks and fragments, worked, but unfinished. Also flakes of quartzite and slate. Toolset typology: Quartzite blades up to six or seven inches long, apparently unfinished, rounded base, curved edges; one unfinished slate gorget, indented sides; ex-banded steel points, flint, and also corner-notched, 3 inches long; hammerstones; choppers, peckers, and celts with ground edges, rectangular. No pottery.

Other material has come from the surface of the road, where it has cut down into the site as much as two feet. Among this are two pieces of the Tolson type, quartzite. Presumably these were from the gravel. The unfinished slate gorget is not certain. It may be a pebble-like form, of which there are others from the Tolson and road. In the Tolson are refuse pits, and hearths, and also some of stone suggesting steam bath. Abundant fire-cracked rocks, chert, and averaging two inches apical, or less.

This site was apparently reached three times, as the water receded from the Algonquin straits, again on the way up to the Wisconsin, and again on the way down to the present level. The Tolson component would have been deposited the last time, as to the Sandia-like material in the gravel, presumably the first time. Large boulders, as much as 500 lbs. weight, lie on top of the gravel layer containing the Sandia-like point, and the other point was either in this gravel, or beneath it in the aforementioned deposit of sand.

No bone material of any kind has been found on the site. There is cultural material in the sub-soil, which is likewise sand, and lies between the bottom of the Tolson and the top of the gravel. But this material is made up of flakes and other amorphous pieces, all flint, and possibly picked up by wave action from the gravel as the beach was built up.

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George Lake 1 (GL1). Five miles from Killarney, $1\frac{1}{2}$ miles from CH1, on a cobble beach and on the slopes around it. The beach is about 500 feet long E. and W., and its top is 298.7 feet above Lake Huron. The main concentration of cultural material is on and in this beach, but stuff is found on the slopes and terraces extending southward, down to a level 89 feet lower than the top of the beach, to shores of a small lake, and on the bottom of the lake out about twenty feet from shore, if not farther out. The Lake Algonquin beach level here is 1065 above sea level, or 485 feet above Lake Huron, although no such actual beach is found in the Killarney area, evidently because of a lagging mass of ice covering the area. The entire extent of GL1 is about 30 acres.

George Lake 1 is primarily a workshop, with an excellent grade of quartzite available in unlimited quantities in the immediate vicinity. There is no pottery, no flint, no material whatever other than quartzite. Many of the implements, cores, flakes, blocks etc., of quartzite are heavily rolled, indicating with complete certainty that the water-plane was at that level when the site was used, or at any rate during the first stages of its use. All cultural material so far is found on the surface and to a depth of about 17 inches.

Previous publications on this site have not been sufficiently clear nor decisive in the matter of the unfinished condition of most of the artifacts. It was not until the season just past that it was realized that the plethora of large blades with rounded or square bases give no clue to a true trait, but are simply projectile ~~points~~ points in a half-finished condition. This possibility has been in the picture from the first, but now it seems fairly well established. The only traits that are indicated, from forms that can be regarded as final in the stage of manufacture, are 1 Yuma type, 1 side notched type like that in the Chiricahua stage of Cochise, or resembling in size more the side-notched point from the Black Sand of Illinois; 2 large "end scrapers," about 3 inches in diameter, and flat; 1 thin knife or side scraper, the edge retouched partly from one side, partly (further along) ~~next to the~~ from the other side, that is, looking at it edge-on, the flake scars are on one side for about $\frac{2}{5}$ of its length, and on the other side for the remaining portion of the edge; 1 punch about 7 inches long, made by a single blow; half a dozen flakes with edges retouched, and 1 flake with a notch; 1 drill, with point missing, and a heart-shaped base (from a lower terrace, which must have been under some 35 feet of water when the lake level was at 298.7, at the top of the main beach.). There are also four or five hammerstones, also of quartzite. There are no fire-cracked stones, no hearths, no refuse or storage pits, no bone material. There are flakes by the hundreds of thousands. In addition to the implements described above there are upwards of twenty forms that are asymmetrical, and in the publications on this site have been called "semi-lunar blades." Most of the rolled specimens are of this type. There is one small specimen, one end missing, that is identical in outline with a knife illustrated by Roberts as from Lindenmeier. And 1 very heavily rolled specimen about 8 inches long strongly suggests an unfinished Sandia 2 type. The bulk of the artifacts are broken halves of large blades in all stages of manufacture except the final stage. Many of these have been fitted together to restore the whole, but it is still an unfinished specimen giving no clue to the exact type. The largest specimen is 13 inches long. There is also 1 heart-shaped core about 7 inches in diameter, and several other cores less symmetrical in outline.

The first part of the book is devoted to a general history of the United States from the discovery of the continent to the present time. It is divided into three volumes, the first of which contains the history of the discovery and settlement of the continent, the second the history of the formation of the government, and the third the history of the war of independence.

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The foregoing three sites are the largest of the sites that have been found and collected from in Ontario by the University of Michigan, aside from the Old Birch Island Cemetery, the report on which was published a year or so ago.

Other sites that are smaller, but important from the angle of cultural affiliations, are a site of the Iroquois aspect at Providence Bay on the south shore of Manitoulin Island, and another of the same classification some four miles up from the mouth of French River. There are some thirty other small sites from which nothing but flint and quartzite flakes have been collected, mostly on Manitoulin Island. One stone mound on Round Island about 12 miles east of Little Current, excavated some forty years ago, was re-examined in 1939 with no results of importance, and another on Smith Bay at the east end of Manitoulin Island, excavated in 1949, was found to have been utilized as the foundation of a hearth for a log or bark house within the past 200 years or so. Only one discoidal shell bead indicated that it had originally been a mound. In the summer of 1952 a few flakes and a flint stemmed projectile point were found on the North Shore about 16 miles N.W. of Little Current, on a beach about at the level of the beaches of Nipissing Great Lakes, which in the Killarney area is at 85 feet above Lake Huron. This site was not excavated. The shore for some three or four miles on the North Shore, around La Cloche Creek, is sandy, and bears considerable evidence of pre-Columbian occupation, in the form of flint and quartzite flakes, at elevations of less than 20 feet. There is a sparse site at La Cloche Creek, on the west bank, and another one on the east side at an elevation of around 20 feet. None of these have been excavated. Material has been collected also from a site at elevation of about 60 feet, at Collins Inlet, 18 miles east of Killarney. Along with a few flakes this yielded a blade very much like the side-notched one illustrated as No. 6, Plate IV, by MacNeish, in A Possible Early Site in the Thunder Bay District, Ontario. This site had previously, many years ago, been mainly destroyed when gravel was removed for the lumber camp nearby.

The site known as La Cloche 1 (LC1) should also be mentioned. It was the first found of the sites on raised beaches, and there is a publication on it, by E.F. Greenman, Papers of the Michigan Academy of Sciences. Quartzite flakes, animal bones, and signs of fire were found beneath the end of a sandy beach lying on limestone, at the easternmost tip of Great Cloche Island. The elevation is 28 feet, - about that of KB1. Practically no material giving a clue to the traits, but the elevation is suggestive. This was also the site of an extensive early historic cemetery, and it must have been one of the best early historic sites in the Great Lakes region. But it was looted by tourists, local amateurs, and the Indians themselves. I have seen material said to be from this site at the Indian Reserve on Roberts Bay, near South Baymouth on Manitoulin Island - a number of brass kettles 2 feet or more in diameter. This site is mentioned and described, and in the Old Birch Island Cemetery report, by Greenman. Another historic site was found on Vidal Bay, at or near the west end of Manitoulin Island. It had been looted, every one of the 15 or 20 graves, but it was late - probably around 1830. The graves may have been dug up by wolves. This was mapped but not dug. There is also a site at the bottom of West Bay on Manitoulin Island, on sand. Little if any material for identification of traits, - nothing but flakes. It is on the West Bay Indian Reserve. Everything is on the surface. Another site at Fisherman's Cove, Little Cloche Island, had one smashed pot lying on limestone at an elevation of 12 feet above Lake Huron. Sherds of this pot were identified by MacNeish as Huron.

E.F. Greenman, December 5, 1952.

Thermal maximum = p-g-o

Antilley Lake, Long (Hughes Vol 18, p. 271) - Sandy
Lake, C. Bear River - 1074 (surface & below) Champagne
1, 2, 3 (but ~~only~~ only 1 for Long Point) - should
check Roberts for Agate basin & - Distribution
of point show them at Vabo Hill (K.C.) and
Horseshoe Rock, Ill. as southernmost extension
Humans in Minn. outside Agate basin & near
in back. - All are surface collections. ←

Dates: 1. Long site - 7000 - 7700 - geology
early recent - modern Tennessean
possible pre-post glacial optimum

2. Yukon - Kluane silts at 1079 -
pre-post glacial optimum -
Champagne unknown but
- Possible p-g-o.

3. C. Bear River - at junction of sand & humans
- possible beginning of p-g-o
during which humans was formed
- C74 possible.

4. Antilley Lake - High beach in Basins -
ice gone but lake extensive &
draining to west. what stage in high
post glacial

Long Point	Champlain I.H.M.	1074	Beaumont	Sandy Lake	Littleton
Long Point		3	8	2	X
Pointe Blanche	1?			1	
flat topped sand mounds	X	X	14	2	X
long sand dunes	X		X	X	X
pinkish sand mounds (thin & flat)	X	X	X	X	X
small sand mounds for shipping	X	X	X	?	X
small sand dunes			X		
small			X		
Chaparral			X		X
low sand dunes (small pebbles)	X		X		
low sand dunes			X		
split pebble sand mounds	X	?	X		X





PC - ~~Stack~~ ^{Sept. 1/1991}
Killer -
greeny clay

ash 1400-

2000

gray - Sepia
vegetable material

gray Sepia 3' to nothing

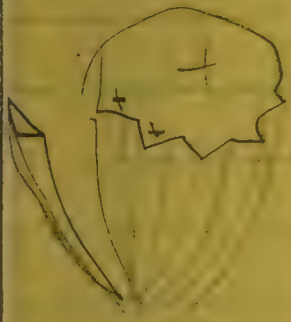
red

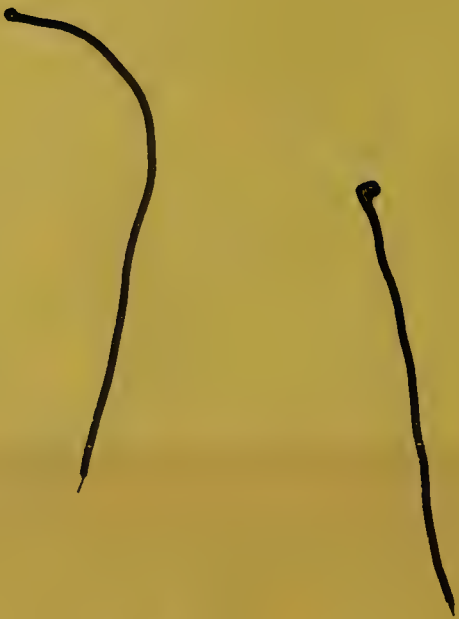
orange
yellow

speckle gray even mat. etc.

Gravel to tell etc

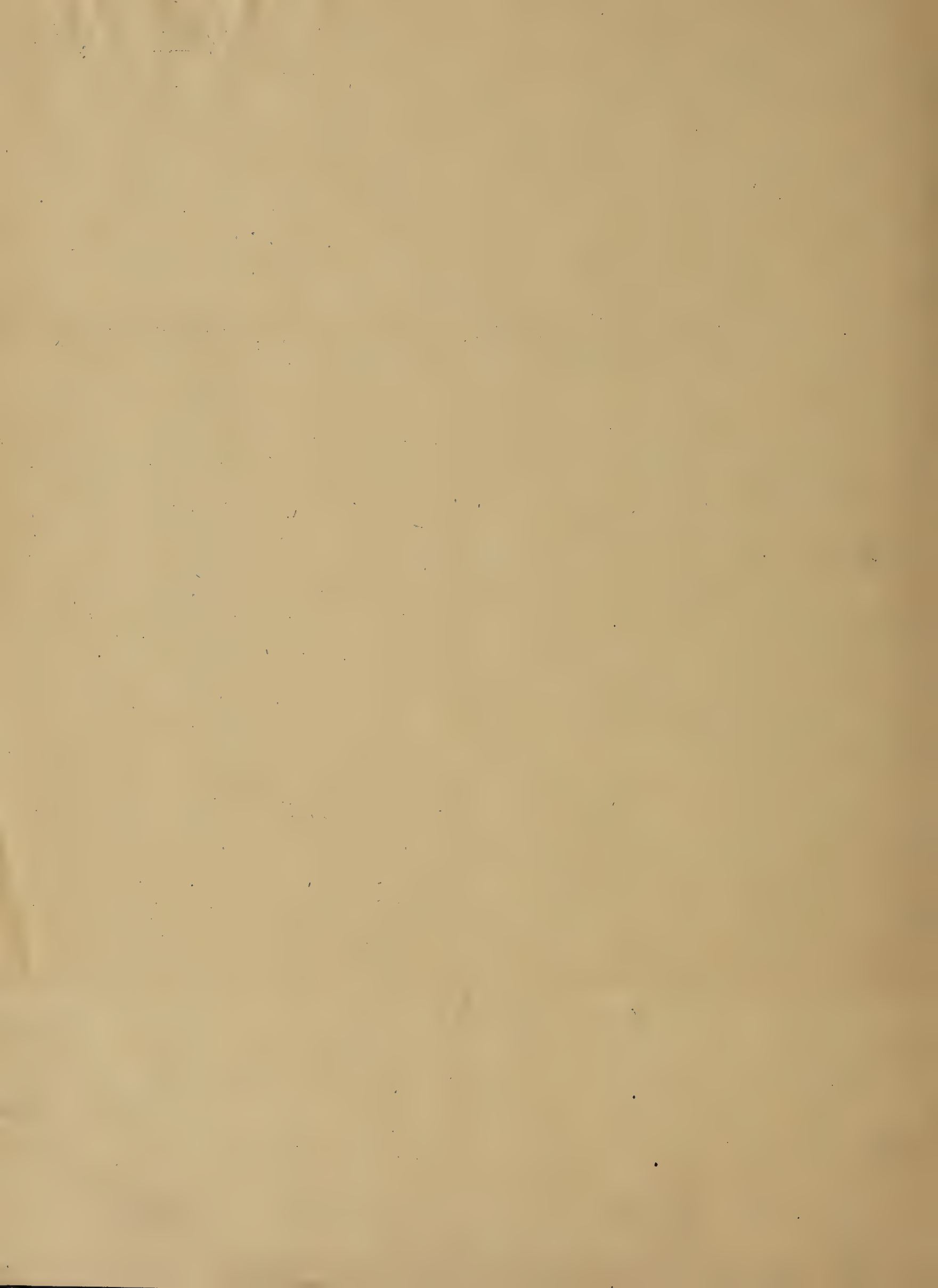
Gravel





Red = Thompson
C. Red - La. River
Limestone = Carbonate
Dark yellow = Reddish
Yellow = Brown
Green = Marine
Blue = Freshwater
White = Sand
Grey = Clay
Black = Coal

[illegible]



Fortean Bay 3

Chipped gouge

Ground range

General ground state concepts

Control by slugs

large in places.

Corynephorus

Fortean Bay 1- more or less some

1 Anne & Corp 2

Deville

Language a small controlling group

2/25 on Dutch 2

But some white pt.

Test II. Module 1

Quercus pl.

Penelope W S

Aspen pt

Celt

Part no. three 3-

2 probes contracting stom. p.s.

ack

Big blades (some semi-linear)

4

7

4

12

March 1st

- 1. ...
- 2. ...
- 3. ...
- 4. ...
- 5. ...
- 6. ...
- 7. ...
- 8. ...
- 9. ...
- 10. ...

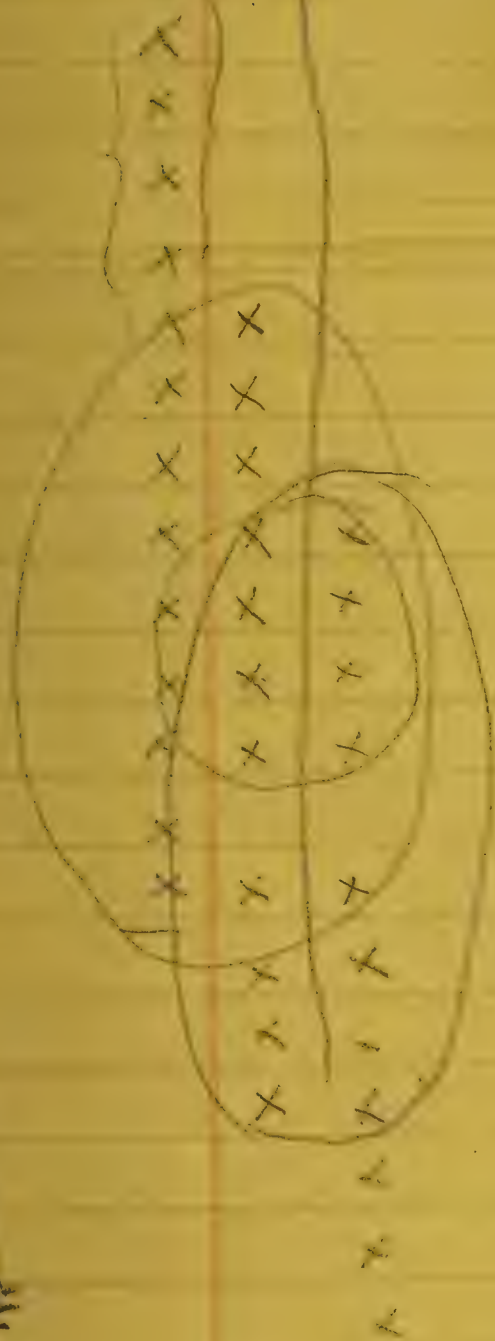
March 2nd

- 1. ...
- 2. ...
- 3. ...
- 4. ...
- 5. ...
- 6. ...
- 7. ...
- 8. ...
- 9. ...
- 10. ...
- 11. ...
- 12. ...
- 13. ...
- 14. ...
- 15. ...
- 16. ...
- 17. ...
- 18. ...
- 19. ...
- 20. ...

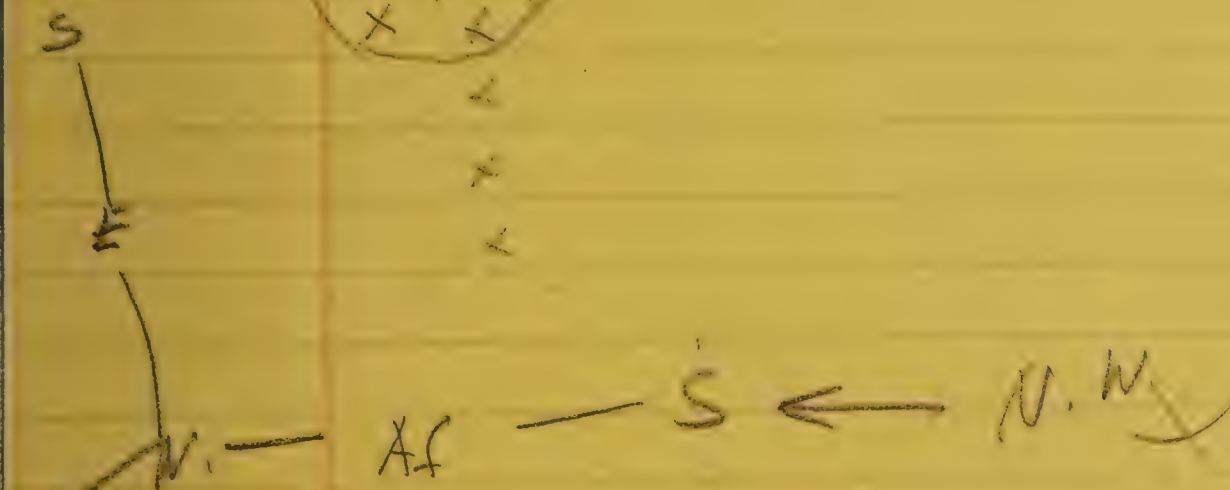
March 3rd - ...

Mus PM FL S.R

Neuron, level 96



~~322~~
~~323~~
~~324~~
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 353



500 B D 1+

1885
1886

124

5. 6.

10

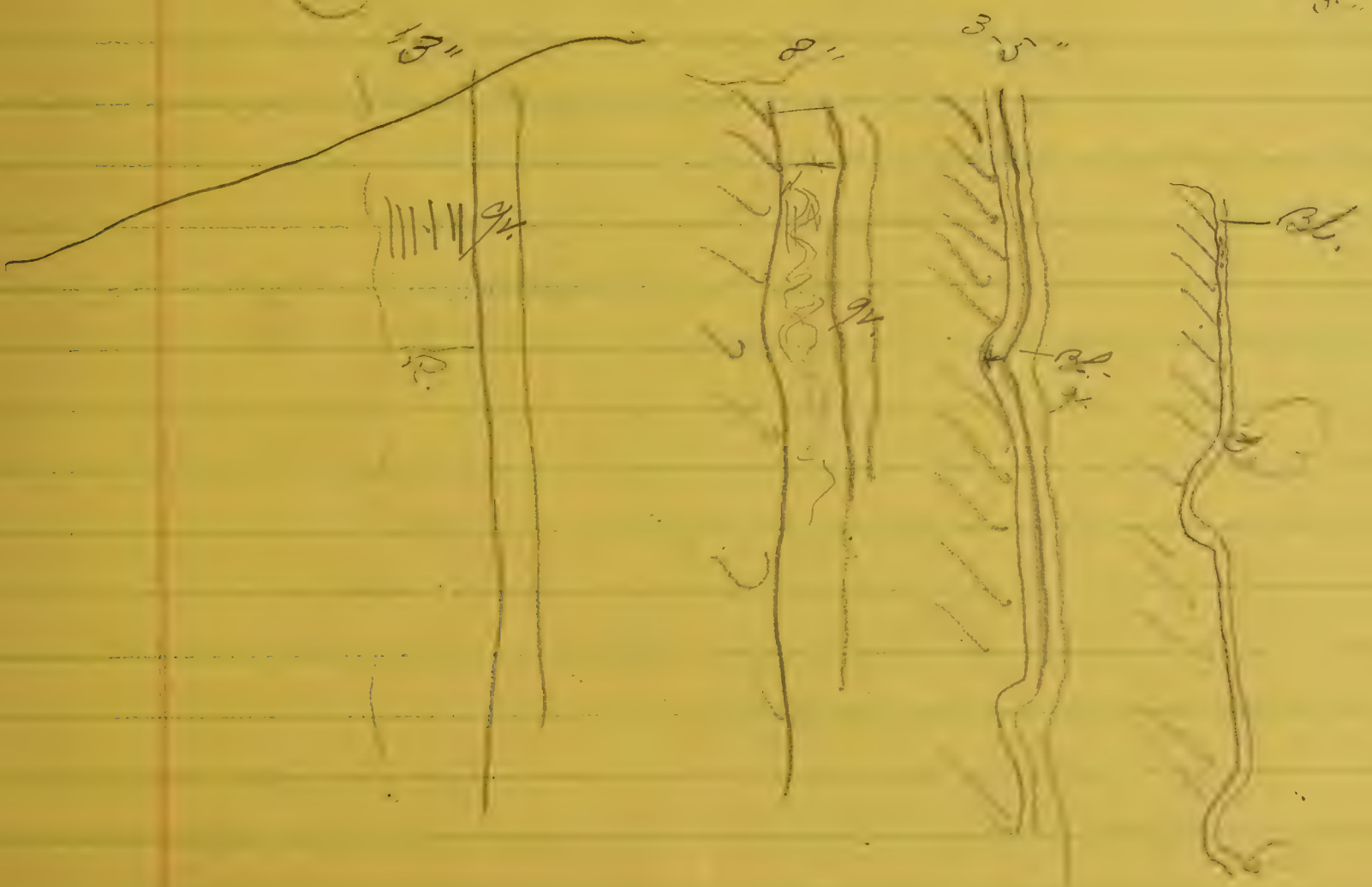
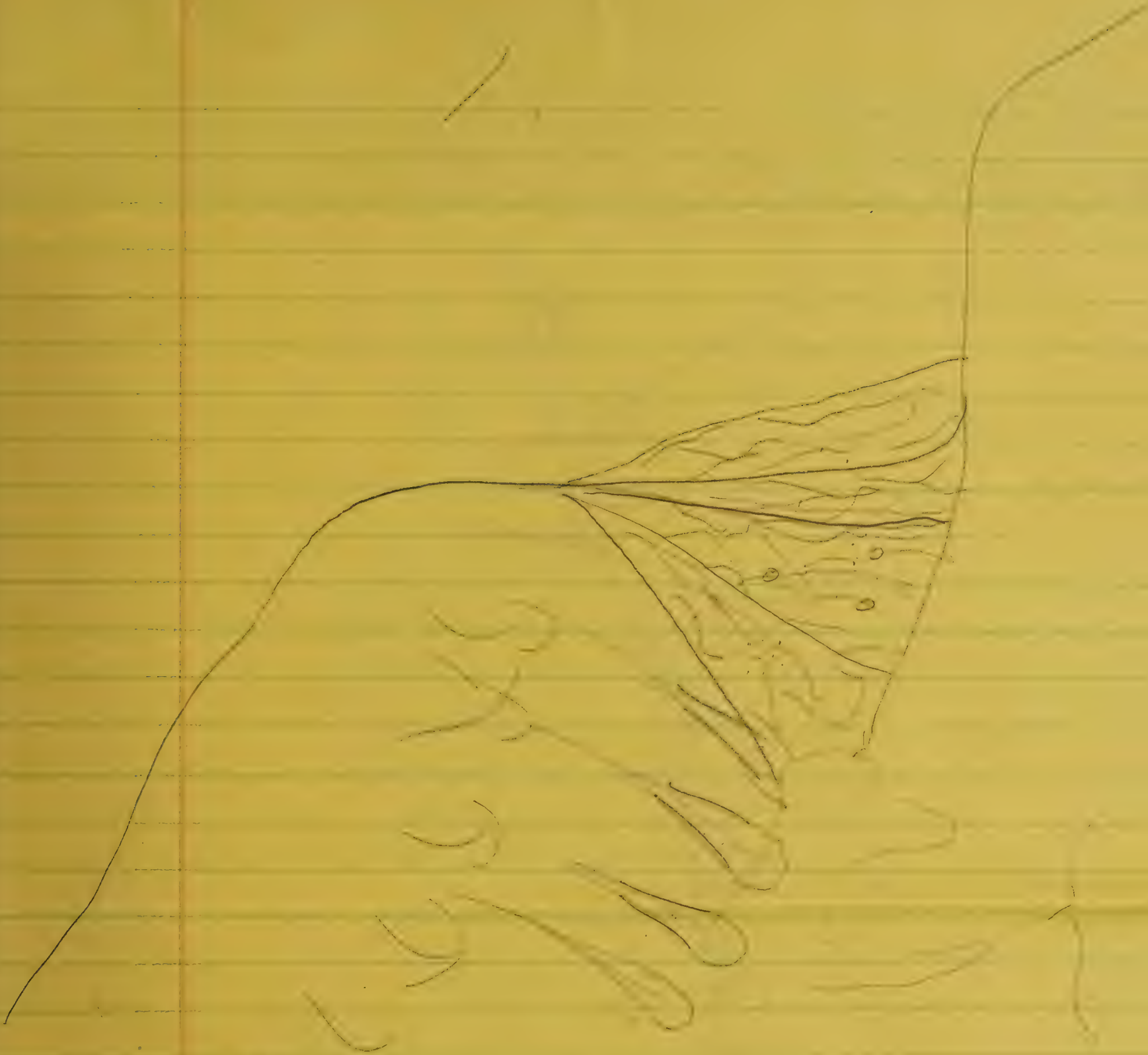
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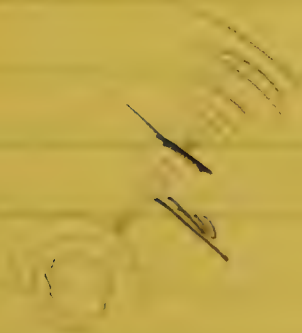
Don

1000000

PO







Ramp

1 hour 30 min

Tape Lake - side removed pt. shippers, whole etc -

Bennet Lake - Lake complex, quarry stone, cobbles removed
small side removed pt 1

Little Lake Complex

→ 173

Champergne Cove

11.2 - H. Raven Lake (1911)

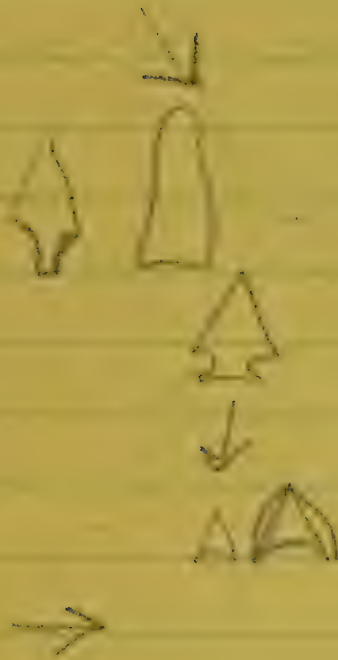
163 also has a polycolored cone
blown also has a polycolored cone
Covers - Planners - like pt

see
clay pit

Blackstone Complex

Notes	Covers	Handwritten Champergne	Blackstone Lake	Blackstone for Lake
Large side solid concrete base		1	x	1
Corner solid pt, corner base	1	1	x	
round flat end scrapers	1	1	x	x
flat oval flake rule scraper	1	2	x	
rebar				x
end scraper line				2
Vulcan sheet metal scraper				x
alt				x
dry blocks			x	x
leaf pt.			x	

S. W. Custer



Sites, files everywhere but not a ~~note~~

↑ report ~~in sight~~
to study

I Introduction

(a) Survey

(b) Excavations (not done yet)

(c) ~~On the ground~~ - 32 ^{40 sites} total, Canadians 15 Am 17

46 - Winterberry R

Am Rep 11
Can " 6(1?)

3 - Leechman

2 - Lee

3 - Callens R

7 - Gaudin R

Leach

1 - King R

Smith R

Bliss

2 - Johnson R

2 - McClellan

3 - Weather R

1 - Bird

1 - Hlubek

11 - Greenman R

4 - Ridley R

2 - Harper

2 - Emerson

5 - Ritchie R

6 - Jurek R?

3 - Kiesel R

4 - Harp R

Baral

2 - Douches R

Ingue

Hayes

9 - Tom Wood R

Neale

Strong R

2 - Welford R

2 work

II The Areas

B.C. coast general = Survey, then Drucker, King, Borden, and others extensive along coast all the coast. Though Drucker ¹⁹³⁸ Survey ^{and the survey of 1938} was excellent and indicated where cultural change and stratigraphy might be found it has never been followed up by major excavation. Therefore for the present we will presume that area as the regional and archaeological manifestations are still unknown. ^x The survey on the south B.C. coast is in a much happier situation as at least 2 groups of B.C. & work following up their survey with intensive excavations.

- x. Drucker Archaeological Survey on the
Northwest Coast, Anthropological
Papers, No. 20, B.A.E. Bulletin 113, Washington 1943

II The Areas

B.C. coast general = Survey from Plover, King, Borden, and other estuaries along almost all the coast. Though Drucker's ¹⁹⁸⁸ survey ^{and the survey of 1988} were excellent and indicated where cultural change and stratigraphy might be found it has never been followed up by major excavation. Therefore for the present we will pass over that area as the sequence and archaeological manifestations are still unknown. ^x The survey on the south B.C. coast is in a much happier situation as at least 2 groups of people were following up their survey with intensive excavations

- x. Drucker Archaeological Survey on the Plover Borden Coast, Archaeological Papers, No. 20, B.A.E. Bulletin 133, Washington, 1988

Periods	Musqueam	Musqueam site	Cattle Point site	Malpole	Point Grey	Whelan	Locarno Beach
	Recent Musqueam site		Late Maritime Predevelopmental			Whelan II	
			Island Developmental Island	Malpole	Point Grey		Locarno Beach 3
						Whelan I	Locarno Beach 2
							Locarno Beach I

1800
 1500
 1400
 1000
 700
 300
 600 B.C.
 Locarno Beach I
 Locarno Beach 2
 Locarno Beach 3
 Whelan I
 Whelan II
 Point Grey
 Malpole
 Cattle Point site
 Musqueam site
 Recent Musqueam site
 Late Maritime ~~Predevelopmental~~
~~Island~~ ~~Developmental~~ Island
 Alot Musqueam site
 Malpole
 Whelan
 Locarno Beach

~~at~~

Lucerne & Zollikon - as old coastal culture

covered under by Markpale invasion (Salish)

from interior - old coastal may develop further
elsewhere

II The Areas.

(A) B.C. - Coast - Surveys have been undertaken in this area by Dasher, King, H. Smith, Borden and others so a fair number of sites are known and a little about the range of the artifactual materials.

(1.) North B. C. coast was surveyed by Dasher in 1938. The survey and test pitting and analysis indicated some of the range of artifact types, various areally different ~~complexes~~ called complexes, and sites where cultural change and stratigraphy might be found. Unfortunately the survey was not followed up by excavation and thus we must at present pass by this very important area.

(2.) South B. C. coast is in a better position as initial surveying has been followed up by extensive and intensive excavations by Borden and King. The result here presented are based upon their works with extensive coaching by Borden. The sequence as we now know it is based upon the correlation of 4 stratified sites and two that were possibly stratified.

Map of area
slide

(a) The sequence

Sites	Locarno Beach, Whalen, Point Grey, Marpole, Castle Pt., Musqueam					Period
						Musqueam / Marpole
Locarno III	Whalen II	Pt. Grey	Marpole I	late (Marpole II?) Musqueam Overlap	Boundary B	
				Island Old Koo.	Marpole	
Locarno II	Whalen I				Whalen	
Locarno I					Locarno	

slide

Periods & cultural complexes
 (b) The components

slide

1. Locarno Period (represented by two levels of human habitation)
 Characteristics

- (a) Heavy slate knife — 2
- (b) Multi-pulver hammer — 2
- (c) Leaf-shaped bone knife blade. — 2
- (d) Thick un-notched leaf-shaped chipped point — 1
- (e) Large bone fishhook osseous. — 2
- (f) Broad flat slate scrapers. — 2
- (g) Slimmed ground slate points — 1
- (h) Large bone notched (unilateral) points — 1
- (i) Thick chipped contracting slimmed points — 1
- (j) Rect-notched stone object — 3
- (k) Tabret of channel coal — 3
- (l) Onyx carved figurine — 3
- (m) Bone toggle button — 3
- (n) Wide bone chisels — 2
- (o) narrow " " — 2
- (p) Ulma awls. — 2
- (q) Chiseling stone. — 2

Summary. Food stuffs indicate they were well adapted to the sea & ate sea mammals even though horizon complex not ^{well} developed.

Heavy duty wood working tools not present as wood house, boats & carrying of wood probably absent. are nevertheless a specialized coastal complex with bone carving & ground slate (artifacts).

2. Whalen Period Characteristics (represented by Whalen I and Locarno^{II} components, with variation indicated Locarno II a little earlier than Whalen I)
 Characteristics

- (a) Long lanceolate bone pts.
- (b) " " " " slate "
- (c) Contracting slimmed chipped pts.
- (d)
- (e)

Dear Mr. [Name] [Address]

I have just received your letter of the 18th inst. regarding the [subject] and am glad to hear that you are interested in the [subject]. I have been thinking about this for some time and have been unable to find a satisfactory solution. I have been very busy lately and have not had time to devote to this matter. I have been very busy lately and have not had time to devote to this matter. I have been very busy lately and have not had time to devote to this matter.

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Locono Period Characteristics

1. Heavy slate knife 2. Ground slate pt with concave base
3. Multi-pitted hammerstones 4. Leaf shaped bone knife blade
5. Thick notched chipped pt. 6. Large bone fishhook knobs
7. Broad flat scrapers 8. Stemmed ground slate pts. 9. Large bone ^{unilateral} notched pts
10. Chipped contracting stemmed pt. 11. Rect. notched stone adze 12. Bone labret
13. Carved antler figurine 14. Bone toggle button 15. Bone chisel wedge
16. Nowa bone chisel. 17. Ulva awls. 18. Abrading stone

— Well adapted to sea-aided pts of slate - little harpooning though sea mammal hunting occurred. woodworking tools not present

Whiton Period Characteristics

unilateral

1. Long thin bone pts 2. Long thin slate pts 3. Contracting stemmed chipped pts
4. Unilateral obliquely notch bone pts. 5. Toggle harpoon segment across & line hole
6. Antler toggle harpoon-blade, slot - uni spurred. 7. Antler foreshaft.
8. Side notch bone pts 9. Side notched shell pts. 10. Shell adze
11. Bird bone whistle 12. Rect bone net gauge 13. Bi pointed tip bone 14. Bone gong
15. Conic pendants 16. Ulva pryer 17. Ulva awls. 18. Abrading stones

— sea mammal - hunting — woodworking incipient — no art
 ↑
 simple harpoon (female)

Malpala Period Characteristics

1. Contracting stemmed chipped pt. 2. Ulva awls 3. Abrading stones 4. Flat slate knife
5. Shell scrapers 6. Thin chipped pt. 7. Unilateral fitted antler pts 8. Bi-Pointed ^{chipped} pts
9. Unilateral barbed harpoon 10. Conic pendants 11. Bi-pointed stone 12. Stone bowls
13. Basalt bifaces 14. Bird bone needles 15. Cell pencils 16. adze 17. Bone or shell wedge
18. Boulder hammer 19. Broad thin bone pts 20. Bird bone beads 21. Dentalium shell beads
22. ~~Marine shell~~ ^{Marine shell} 23. ~~Marine shell~~ ^{Marine shell} 24. Chipped knife

Woodworking comes in with bow — maybe bow & arrow
 sea mammal - hunting continues — switch to fixed harpoon

Cattle Point Period

1. Ulva mounds, 2. ^{whetstones} abraded stone 3. Contracting stem chipped pt 4. Bi Beveled chipped pt
5. ~~Chipped pt.~~ 6. Composite harpoon flat blade def 7. Shell wrapper
8. Unilateral fixed anchor pts 9. Conine pendants 10. Conch chipped boralt beface
11. Unilateral beaded anchor harpoon head 12. Bird bone needles 13. Adze
14. Wedge 15. Boulder hammer 16. Bone pts 17. Dentalia beads, 18. Bird bone beads
19. Stone beads 20. Relief carving 21. Side notch chipped pt 22. Long Trin chipped
23. Short side notch chipped pt 24. Tanged pt 25. Expanding stem pt. Long
26. Expanding stem short 27. Bi-pitted unts 28. Small plate 29
30. Oolite shell beads 31. Perforated mullered shells beads 32. Splinter gorages
33. Beaver tooth knife 34

1. Woodworking yard
2. Mammal hunting - composite harpoon
3. Bow & arrow & attch
4. Out on incision maybe Totipot

Musqueam Period

1. Ulva mounds 2. Whetstones 3. Bird bone mounds 4. Bird bone whistles 5. Blot knife
6. Composite harpoon flat blade def 7. Bell beads, 8. Boulder hammer
9. Elongate hammer 10. Adze 11. Wedge 12. Oolite bone pt 13. Dentalia beads
14. Bird bone beads 15. Cylindrical bone needle 16. Gorages 17. Beaver tooth knife
18. Bi-pitted bone pts round cross-section 19. Small tree ground plate pt 20. Unilateral
21. Fixed bone pt 22. Small side notch chipped pt 23. Narrow notched bone pt.
24. Long contracting stemmed bone pt 25. Ground bone cylindrical bone pt
26. Beaded composite harpoon with ground blade def. 27. Decorated blanket pins
28. Small tree ground plate pt 29. Large bone ring 30. Bone mortar
31. Indist bird bone drinking tubes.

- Coastal District, historic Musqueam village

(c) Interpretations - The earliest culture so far found is extremely specialized ^{though adapted} to sea but have few tools to assist them. Bone carving present. This earliest group gradually become better adapted to sea mammal as they used a variety of harpoon (composite harpoons). Somewhat after this period there is ^{either} an invasion of new people from the interior (upper Fraser River) or a terrific new development of the older people. I believe it is the former. This new period see a good adaptation to sea mammal hunting (though it is the fixed harpoon) and the ^{some hunting with bow & arrow replacing at all} see the rise of wood working (adze, wedge, & hammer appear), the carving of stone (& wood?) and possibly the use of totems as animals came of age usually. This period continues with only minor change in harpoon type for a while and evidently develops into historic Salish (Mazqueen) though there is a minor gap just preceding historic times.



(B) B.C. Interior: — This area, ^{particularly the lower Fraser.} is evidently of key importance to interpreting the coast & particularly the late coast adaptations, ~~particularly the lower Fraser area.~~

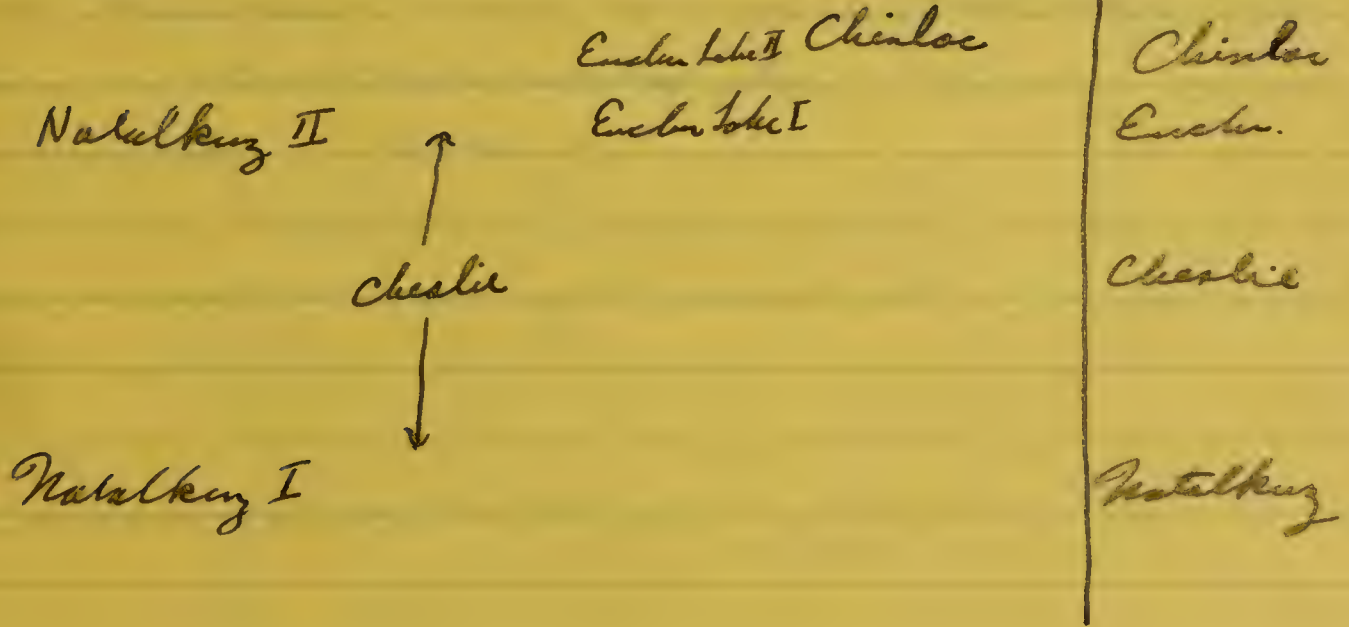
Unfortunately ¹⁹⁴³ Ducker's characterization of the area (Smith's work) as "abruptly, abruptly everywhere but not a sequence in sight is still all too true. Recently the U. of Wash. has initiated work in the Okanogan valley & it is hoped that the situation will be rectified. Northern Interior B.C. is perhaps better known than the work of Leachman & Sewell and seems to tie in with materials in the Yukon, however, excavations have not been undertaken. Only the central B.C. is known from Borden's excavations in the basins now flooded by power dams for the Alcanian Co.

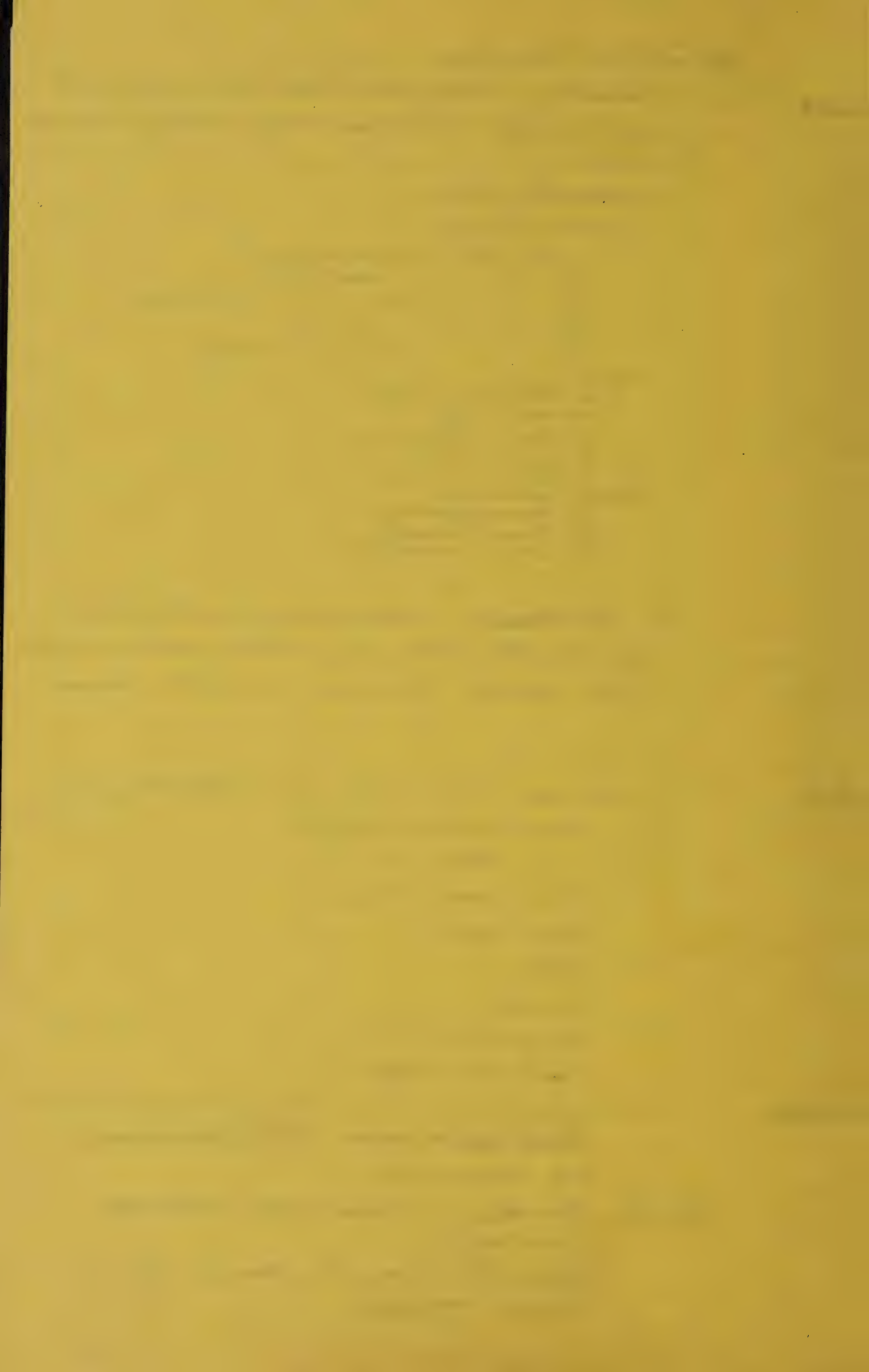
(a) Central B.C. Interior

1. The sequence

Natalkung site

Slide





Interpretation - The earliest complex is
for present ^{the Natchez} ~~a~~ ^{known} better industry and
seems to be so complex, further south
in the Yuckon, N.W.T and Alaska. Though
it is perhaps quite early it does not seem
to have indication of as great geological
certainty as the other sites, ^{probably} further north.
However, carbon 14 will have to solve
this problem. Most of the other ^{stone} ~~stone~~ ^{Cherokee}
of the prehistoric Cherokee can be connected with
Cassidy tribe. There are at present only
hints that the ^{in the Cherokee area} ~~Natchez~~ may be connected
with these cultures, etc.

C Yukon - Since our earliest relationship of
Interior Central B.C. parent northward it is
appropriate to the ~~area~~ the Yukon. Both
Dr. Leachman of the National Museum of Canada
and F. Johnson of Peabody Museum of Annapolis
have suggested ~~understanding~~ preliminary
excavations in the section. Yukon. Specifically
the greatest amount of work has been done in
the S.W. Yukon along the highway. Geologically
this area is a good one for archaeologists
as the ^{parent} stratigraphy has been studied. Stratigraphy
and the glacial gravels are to be found
reddish soils (called Klondike soils) which
were blown into the area, ~~blow~~ and ~~unfettered~~
during the post glacial optimum. There is
overlain by a tan silt (also a River silt) which is
cut ^{by} a volcanic deposit dated 1500 B.P.
and the whole thing is capped by ~~human~~ ^{human}. These
cultural complexes come from the earlier

6. Klondike soils
cultural complexes

1. Champagne Complex - For comparison to the

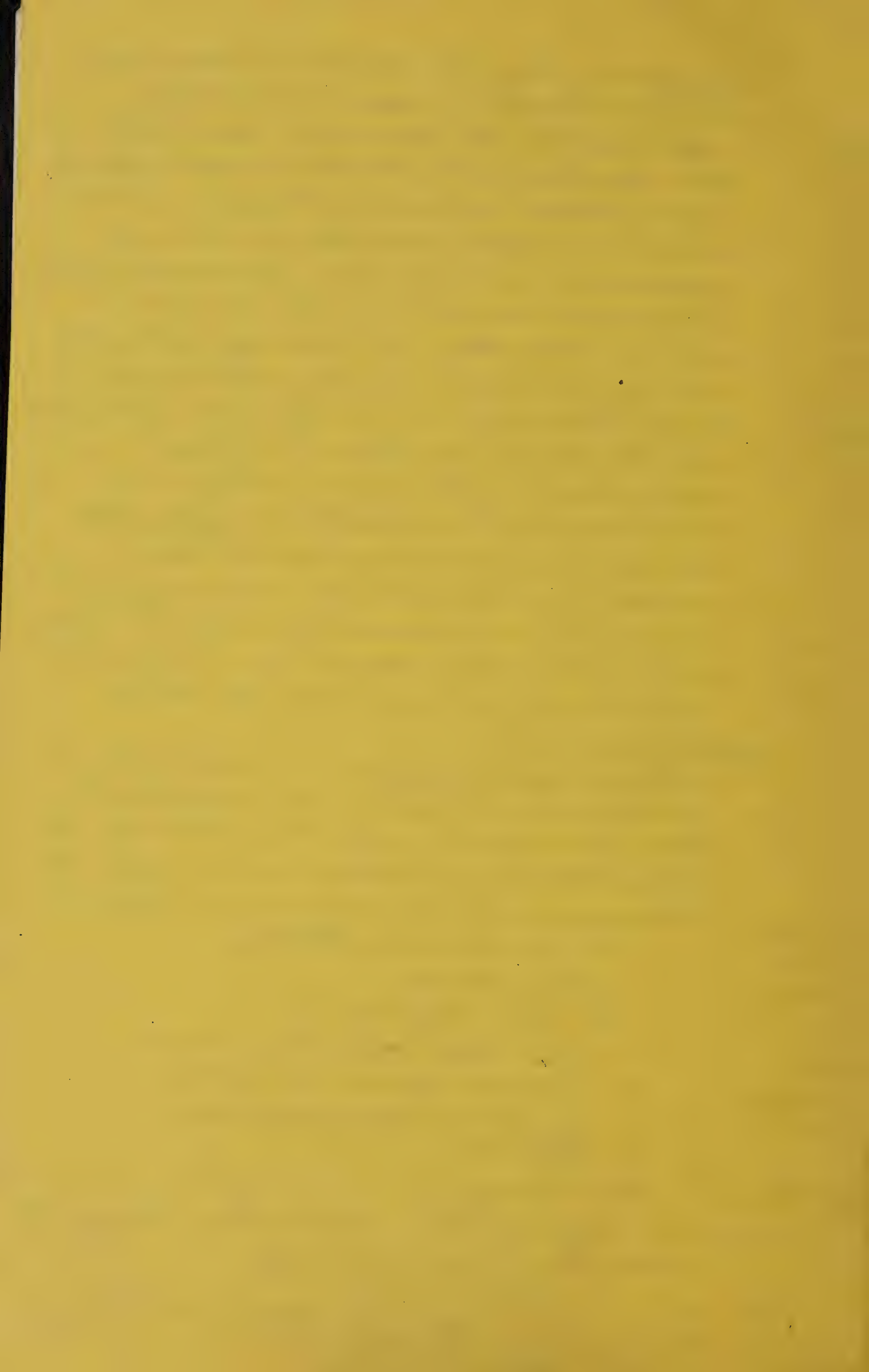
I believe this complex is the earliest of the
two. It was found in situ at site 1079 along the
Ashcroft or Canyon Creek and on the surface at
Champagne I, II, & III, Cochrane and at Klondike Lake.

The complex is represented by

- (1) Long Points
- (2) Shellbluff Pts (3)
- (3) Flat topped mostly Tm and ranges
- (4) Flute and range (also + flat)
- (5) Sand covered ~~post-glacial~~ range
- (6) ~~Gravel~~ ^{Gravel} blocks
- (7) Choppers

2. Little Arm Complex - microliths at Canyon 2, 1013
and Little Arm of Klondike Lake sites

- 1. Small flake
- 2. R.E.
- 3. Small small ~~range~~ ^{range} (Killed?)
- 4. Long side range
- 5. Gravel blocks (fine)
- 6. ~~Gravel~~ ^{Gravel} ~~range~~ ^{range}
- 7. ~~Gravel~~ ^{Gravel} ~~range~~ ^{range}



3. Glacial Complex - in situ at Campagne below creek but above Kluane silts, on surface at Glacial Lake, Tachin, Carcross & Taya Lake.

1. Large radiolite pebbles with concave base
2. Corner radiolite pebbles with concave base
3. Round flat end scrapers.
4. Flat oval (abraded) radiolite scraper (?)
5. big blade
6. leaf points

maybe

radiolite, ^{multicolored,} ~~large~~ radiolite, alt,

4. Bennett Lake Complex - represented by one surface collection.

1. Small radiolite - radiolite point
2. Large pebble scraper
3. Grinding stone
4. small end scraper (?)
5. Celt (?)

- (c) Interpretations - It rather looks like an early complex on the river. One with affiliation toward the great Plains (large boulder pebbles) and a second with connection in the north. The later culture seems connected with either of the former.

(unclear)

(D) S.W. of N.W.T. - Only 4 excavations have
 made in this area by myself in 1950 and 1952.
 This is an important area and ^{I believe} should be rich in
 important if adequate transportation was available
 for further survey and excavations. The glacial
 geology is totally unstratified & our only
 hope for the present or doing is by
 Carbon 14

Lonely Lake Complex is a single collection
 from below the houses on a high beach on Lonely
 Lake. It is an awful place to get to & ~~sample~~
 sample is rather small. However, from a
 comparative stand point it is important

1. Scott's bluff point (1)
2. Long points (2)
3. Flat topped end scrapers (4)
4. Shovelled side scrapers (4)
5. Aired blade (?)

The second complex is from an excavated site
 with some indication of antiquity as it is on a
 native road profile. Carbon is available for the site.
 It is called the Pointed Pt. complex

1. Jonella 1-6

etc



On a beach somewhat lower than Pt. 1st
we excavated another site which is called
the Frobenius Lake complex. This site is
far different than the two previously mentioned
ones.

1. Lake water level marker, iron plate
2. Small round sample (sample)
3. Dry block
4. Dry chopper
5. Lake sample
6. Green
7. A few lamellar plates
- 8

The next two cultures are on water level
markers and on the two of them seem
to be latter than the Frobenius Lake complex.
One is the Green Lake complex and the other
is the Green Point.

Again the complex (Lake point) is

1. Small water level marker
2. Large water level marker
3. Green block
4. Green sample
5. Green sample
6. Dry block sample

(b) Bear River.

1. Long Point
2. Drill
3. Stem lance knives
4. Ovoid blades,
5. Large flake scale scrapers
6. Flat topped end scraper
7. Broad point
8. small flake scale scrapers

(c) Franklin Duster

1. Side notched point
2. Small flake
3. Keel end scraper
4. Square based knife
5. Arrow
6. Small end scraper
7. Small flake end scraper
8. Corner notched pt.
9. Small flake end scraper
10. Side scrapers
- 11.
- 12.

(d) Points of various complex in Broken Rock levels.

(3.) Interpretations - The earliest culture here definitely ties to the eastern Plains, perhaps we now have some evidence of a migration. The Bear River complex also seems related that way though the point indicates affiliation to the Champagne complex of the Yukon. The later complex ties quite firmly to the Upper Chukchi 5-6-4-2-1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-1221-1222-1223-1224-1225-1226-1227-1228-1229-1230-1231-1232-1233-1234-1235-1236-1237-1238-1239-1240-1241-1242-1243-1244-1245-1246-1247-1248-1249-1250-1251-1252-1253-1254-1255-1256-1257-1258-1259-1260-1261-1262-1263-1264-1265-1266-1267-1268-1269-1270-1271-1272-1273-1274-1275-1276-1277-1278-1279-1280-1281-1282-1283-1284-1285-1286-1287-1288-1289-1290-1291-1292-1293-1294-1295-1296-1297-1298-1299-1300-1301-1302-1303-1304-1305-1306-1307-1308-1309-1310-1311-1312-1313-1314-1315-1316-1317-1318-1319-1320-1321-1322-1323-1324-1325-1326-1327-1328-1329-1330-1331-1332-1333-1334-1335-1336-1337-1338-1339-1340-1341-1342-1343-1344-1345-1346-1347-1348-1349-1350-1351-1352-1353-1354-1355-1356-1357-1358-1359-1360-1361-1362-1363-1364-1365-1366-1367-1368-1369-1370-1371-1372-1373-1374-1375-1376-1377-1378-1379-1380-1381-1382-1383-1384-1385-1386-1387-1388-1389-1390-1391-1392-1393-1394-1395-1396-1397-1398-1399-1400-1401-1402-1403-1404-1405-1406-1407-1408-1409-1410-1411-1412-1413-1414-1415-1416-1417-1418-1419-1420-1421-1422-1423-1424-1425-1426-1427-1428-1429-1430-1431-1432-1433-1434-1435-1436-1437-1438-1439-1440-1441-1442-1443-1444-1445-1446-1447-1448-1449-1450-1451-1452-1453-1454-1455-1456-1457-1458-1459-1460-1461-1462-1463-1464-1465-1466-1467-1468-1469-1470-1471-1472-1473-1474-1475-1476-1477-1478-1479-1480-1481-1482-1483-1484-1485-1486-1487-1488-1489-1490-1491-1492-1493-1494-1495-1496-1497-1498-1499-1500-1501-1502-1503-1504-1505-1506-1507-1508-1509-1510-1511-1512-1513-1514-1515-1516-1517-1518-1519-1520-1521-1522-1523-1524-1525-1526-1527-1528-1529-1530-1531-1532-1533-1534-1535-1536-1537-1538-1539-1540-1541-1542-1543-1544-1545-1546-1547-1548-1549-1550-1551-1552-1553-1554-1555-1556-1557-1558-1559-1560-1561-1562-1563-1564-1565-1566-1567-1568-1569-1570-1571-1572-1573-1574-1575-1576-1577-1578-1579-1580-1581-1582-1583-1584-1585-1586-1587-1588-1589-1590-1591-1592-1593-1594-1595-1596-1597-1598-1599-1600-1601-1602-1603-1604-1605-1606-1607-1608-1609-1610-1611-1612-1613-1614-1615-1616-1617-1618-1619-1620-1621-1622-1623-1624-1625-1626-1627-1628-1629-1630-1631-1632-1633-1634-1635-1636-1637-1638-1639-1640-1641-1642-1643-1644-1645-1646-1647-1648-1649-1650-1651-1652-1653-1654-1655-1656-1657-1658-1659-1660-1661-1662-1663-1664-1665-1666-1667-1668-1669-1670-1671-1672-1673-1674-1675-1676-1677-1678-1679-1680-1681-1682-1683-1684-1685-1686-1687-1688-1689-1690-1691-1692-1693-1694-1695-1696-1697-1698-1699-1700-1701-1702-1703-1704-1705-1706-1707-1708-1709-1710-1711-1712-1713-1714-1715-1716-1717-1718-1719-1720-1721-1722-1723-1724-1725-1726-1727-1728-1729-1730-1731-1732-1733-1734-1735-1736-1737-1738-1739-1740-1741-1742-1743-1744-1745-1746-1747-1748-1749-1750-1751-1752-1753-1754-1755-1756-1757-1758-1759-1760-1761-1762-1763-1764-1765-1766-1767-1768-1769-1770-1771-1772-1773-1774-1775-1776-1777-1778-1779-1780-1781-1782-1783-1784-1785-1786-1787-1788-1789-1790-1791-1792-1793-1794-1795-1796-1797-1798-1799-1800-1801-1802-1803-1804-1805-1806-1807-1808-1809-1810-1811-1812-1813-1814-1815-1816-1817-1818-1819-1820-1821-1822-1823-1824-1825-1826-1827-1828-1829-1830-1831-1832-1833-1834-1835-1836-1837-1838-1839-1840-1841-1842-1843-1844-1845-1846-1847-1848-1849-1850-1851-1852-1853-1854-1855-1856-1857-1858-1859-1860-1861-1862-1863-1864-1865-1866-1867-1868-1869-1870-1871-1872-1873-1874-1875-1876-1877-1878-1879-1880-1881-1882-1883-1884-1885-1886-1887-1888-1889-1890-1891-1892-1893-1894-1895-1896-1897-1898-1899-1900-1901-1902-1903-1904-1905-1906-1907-1908-1909-1910-1911-1912-1913-1914-1915-1916-1917-1918-1919-1920-1921-1922-1923-1924-1925-1926-1927-1928-1929-1930-1931-1932-1933-1934-1935-1936-1937-1938-1939-1940-1941-1942-1943-1944-1945-1946-1947-1948-1949-1950-1951-1952-1953-1954-1955-1956-1957-1958-1959-1960-1961-1962-1963-1964-1965-1966-1967-1968-1969-1970-1971-1972-1973-1974-1975-1976-1977-1978-1979-1980-1981-1982-1983-1984-1985-1986-1987-1988-1989-1990-1991-1992-1993-1994-1995-1996-1997-1998-1999-2000-2001-2002-2003-2004-2005-2006-2007-2008-2009-2010-2011-2012-2013-2014-2015-2016-2017-2018-2019-2020-2021-2022-2023-2024-2025-2026-2027-2028-2029-2030-2031-2032-2033-2034-2035-2036-2037-2038-2039-2040-2041-2042-2043-2044-2045-2046-2047-2048-2049-2050-2051-2052-2053-2054-2055-2056-2057-2058-2059-2060-2061-2062-2063-2064-2065-2066-2067-2068-2069-2070-2071-2072-2073-2074-2075-2076-2077-2078-2079-2080-2081-2082-2083-2084-2085-2086-2087-2088-2089-2090-2091-2092-2093-2094-2095-2096-2097-2098-2099-2100-2101-2102-2103-2104-2105-2106-2107-2108-2109-2110-2111-2112-2113-2114-2115-2116-2117-2118-2119-2120-2121-2122-2123-2124-2125-2126-2127-2128-2129-2130-2131-2132-2133-2134-2135-2136-2137-2138-2139-2140-2141-2142-2143-2144-2145-2146-2147-2148-2149-2150-2151-2152-2153-2154-2155-2156-2157-2158-2159-2160-2161-2162-2163-2164-2165-2166-2167-2168-2169-2170-2171-2172-2173-2174-2175-2176-2177-2178-2179-2180-2181-2182-2183-2184-2185-2186-2187-2188-2189-2190-2191-2192-2193-2194-2195-2196-2197-2198-2199-2200-2201-2202-2203-2204-2205-2206-2207-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2480-2481-2482-2483-2484-2485-2486-2487-2488-2489-2490-2491-2492-2493-2494-2495-2496-2497-2498-2499-2500-2501-2502-2503-2504-2505-2506-2507-2508-2509-2510-2511-2512-2513-2514-2515-2516-2517-2518-2519-2520-2521-2522-2523-2524-2525-2526-2527-2528-2529-2530-2531-2532-2533-2534-2535-2536-2537-2538-2539-2540-2541-2542-2543-2544-2545-2546-2547-2548-2549-2550-2551-2552-2553-2554-2555-2556-2557-2558-2559-2560-2561-2562-2563-2564-2565-2566-2567-2568-2569-2570-2571-2572-2573-2574-2575-2576-2577-2578-2579-2580-2581-2582-2583-2584-2585-2586-2587-2588-2589-2590-2591-

(F) Banana lands. - Only survey in the area though there are many sites & settlements to get to without our service. On the basis of their locations on maps & topography these complexes can be arranged into a tentative sequence.

- (a) Can. Indian - Plains point
- (b) Tallhaitei - high bank - some big mounds
- (c) Ash Chert Lake - High bank - long
- (d) Tuckahoe River - middle bank
side & corner mounds etc.
- (e) Whitefish Lake

(G) Plains of Alberta and back - only surveyed. Of interest are the many early iron points whose distribution I have plotted on the map. A further note of interest is the pottery. The southern part of the area surveyed was then some to be connected with historic & prehistoric times. In other words it is very late. There are some where one or more of these kinds of pottery but all of it seems to be Late Woodland or First Woodland. Purely in eastern part there are a few elements of Middle Woodland. Though this is far from complete or adequate data I believe it is a surprising show to those who visit so different pottery from Africa.



- Slide - 1 Bennett Lake
" 2 Sandy Lake
3 Paulist Mt.
4 Fisherman's Lake
5. Apawac River
6 Franklin Tanks
7 Bear River
8 Franklin Docks.
9. Map of early river points
10 " " pottery types
12. Map of canoe launch areas
13 Linton
14 Lodgepole
15 Montpelier
16 Selkirk

6 Birch Island.

P Kellonay Bay 71

(B) Kellonay Bay 1

R George Lake

R. Chicomanising Site 1

	x long thin thin	Purified that	Wet/drying H.C.	Crack solid solid	Chamber solid solid	Leach solid	Leach solid	1013
small round hole pt								
smaller Flakes (per se)		101	X	X	X	X	X	
R.E " " "		62	X	X	X	X	X	
Painted house ^{on wood} " "		20±	X	X	?			
End sample of		15±	X					
smaller flake ^{small thin} byinga (planes?)		5						
Tri		4?						
small (round?) plate covers and scrapers		22	R	X	X			
small round scrapers small ^{often beveled} scrapers		10	R	X	X	X	?	
large clappers		10±	X	X	X			
large scale scrapers (up to pebble)		X	X	X	X			X
large and " " "		X	X	X	X	X		
large small black scale		X	X	X	?			
medium " " fine		X	X	X	X	X	?	X
micro-burins ?		X						
small point ?		X						
contrasting along point		2			X?	?		
scale removed point		X	?					
medium ^{margin - flake} hand flake - retouch cover edge		4	X		X			
intended smaller flake		X	X		X			
^{small} Polyhedral cores (like flake)		2	X	X	X	X	X	X
double point be. faces (fine)			X		X			
flat tapered end scraper					X			
hoe - like scraper					X?			
too sheared flake end scraper						X	X	
corner - notched pebble point (large)							X	X

Brush Lake - in mucks - post glacial - no stratification

Compass rose - no data

Notalking - stratigraphically under humus + corals

Encke Lake culture materials in humus.

Facts of carbon available for C 14

Painted Pot - ^{Antefixum} Sub humus in orange silt () overlying

yellowish silty ^{sand} on light beach - on slope

yellow silt overlies red over yellow over

fine gravel. - Antefixis deposited

possibly during development of silts

which have developed sub-ventral soil

profile since they were deposited. -

Carbon 14 date possible. - ^{check} Possible

analogy with K lacuna lake situation

should see reddish soil in lacuna red or apical

→ Lecky, Dept of Agric, in Altamora - garden results,

Little Corn, 1013, Canyon 1 - Antefixis in ~~red silt~~ K lacuna silt.

at Little. At Little Corn shaly. it is

Humus.

Min Run silt

volcanic ash and turf

K lacuna silt - top zone reddish over
(medium sand profile)

yellow

very porous material

Glacial Lake sediments on gravel or till

Theoretically shows K lacuna silt to have been laid
down in local pond preceding a general mass movement of silt
at same time.

- Project Pts (chipped)
- D 1. Narrow isarcile with concave base (often unpaired & serrated)
 - D 2. Chipped stone knives with asymmetrical dorsal lateral edge
 - D PM 3. Flat glass concave end and small. used end scrapers (small for a tri)
 - D PM 4. Laminar flakes. (reluctant?)
 - D PM 5. Polyhedral cores.
 - D PM 6. Burre
 - D PM 7. Gravers
 - D 8. Concave side scrapers or blades
 - D 9. Projectile pts, tri with side notches
 - D 10. Side blades - fine micaceous ripple flaking
 11. Long shaped blades with tangs
 12. Chipped stone only blades
 13. " " blades with tangs
 - D 14. Rhomboid - lanceolate points
 - D 15. Denticled end scraper
 16. Quartz crystal chisel
 - D PM 17. Gravers & chisels
 18. Chipped stone ground
 - D 19. White stone
 20. Quartz black micaceous stone
 21. Ground gravers
 22. Soapstone pits (oval) 2
 23. Soapstone pit (rect)
 24. Stotted bone
 25. Stone lamp
- Predominance of chipped stone
 coarse/finer
 fine implements
 small " "
 lack of bow drill.
 chipping & grinding combination
 One fossil chipping

	PORT AU CHOIX-1	PORT AU CHOIX-2	PORT AU CHOIX-5	PORT AU CHOIX-6	PORT AU CHOIX-7	KEPPEL ISLAND	NORRIS PT-1	NORRIS PT-2	TOTAL PER TYPE OR CLASS	GROUP % OF GRAND TOTAL
I-CHIPPED STONE ARTIFACTS										86.2
A-PROJECTILE POINTS										
1-a TRIANGULAR, CONCAVE BASE	76	1	5	25	3	1	2		113	14.5
-b " STRAIGHT "	4	1		1					6	.8
2-a LEAF-SHAPED, OVATE	4					1			5	.6
-b " LANCEOLATE	7	1							8	1.0
3-a STEMMED, CORNER-REMOVED	1								1	
-b " LARGE		2							2	.3
4-a SIDE-NOTCHED, SINGLE	3	6	1			17			27	3.5
-b " DOUBLE				1	1				2	.3
B-KNIVES										
1 TRIANGULAR	18		1	3		1			23	2.9
2 LEAF-SHAPED	10			1					12	1.5
3-a SIDE-NOTCHED, CURVED	6		1	3	1				11	1.4
-b " SERRATED	10								10	1.3
-c " CONCAVE	1					2			3	.4
4-a INSET SIDE BLADE, PLANO-CONVEX	5								5	.6
-b " BI-CONVEX	4				1				5	.6
5-a LAMELLAR FLAKES, NO RETOUCH	3	30	4	29	5	1	3		75	9.6
-b " UTILIZED	10			4	1	1	1		17	2.2
-c " SIDE-NOTCHED	1			3					4	.5
-d " BLUNT-EDGED	23		1	4	1		3		32	4.1
6 ROUGH, PERCUSSION-FLAKED	1	1				1			3	.4
7 MISC. KNIFE-SCRAPERS	5	1	1	1	1				8	1.0
C-GRAVERS										
1 SICKLE-SHAPED	3	1			1				5	.6
2 MISCELLANEOUS			2			1			3	.4
D-SCRAPERS										
1 SNUB-NOSED	1	88	5	3	20	4	4		125	16.0
2 SIDE SCRAPERS		11			4			2	17	2.2
3 THUMBNAIL		5		2	2	1			10	1.3
4 CONCAVE		2	1	1	1				5	.6
5 MISC. FLAKE SCRAPERS	1	13		4	1		1		20	2.6
E-FRAGMENTS										
1 TIPS OF POINTS OR KNIVES	23			1	1		7		32	4.1
2 MEDIAN SECTIONS	2			3					5	.6
3 BASAL "	8	2		3	1				14	1.8
F-UTILIZED CHIPS										
	1	34	1	5	7	1		3	52	6.7
G-UTILIZED QUARTZ CRYSTALS										
		7							7	.9
H-POLYHEDRAL CORES										
		5		1					6	.8
GROUP TOTAL PER SITE	10	424	16	31	117	22	38	15	673	
II-CHIPPED & GROUND ARTIFACTS										1.3
A-KNIVES										
1 BEVELLED		5							5	.6
2 CONCAVE							1		1	
B-ADZES										
		1	1						2	.3
C-MISCELLANEOUS										
		1	1						2	.3
GROUP TOTAL PER SITE		7	2				1		10	
III-GROUND & POLISHED ARTIFACTS										5.9
A-PROJECTILE POINTS										
1 LARGE TRIANGULAR, NOTCHED		1					1		2	.3
2 SMALL "					1				1	
B-KNIVES										
		16	1	3					20	2.6
C-CHISELS										
1 FLAT-BLADED		4		1					5	.6
2 TRANSVERSE-BLADED		2							2	.3
D-GRAVERS										
		9							9	1.2
E-FRAGMENTS										
		4		2			1		7	.9
GROUP TOTAL PER SITE		36	1	7			1	1	46	
IV-ROUGH STONE ARTIFACTS										1.1
A-HAMMER STONES										
		2					1		3	.4
B-MAULS										
		1							1	
C-ABRADING STONES										
			1		2		1		4	.5
GROUP TOTAL PER SITE		3	1		2		2		8	
V-STEATITE LAMPS & POTS										
*P=PRESENT A=ABSENT	A	P	P	P	P	A	A	P		
(*PRESENCE COUNTED AS ONE ARTIFACT)										
VI-BONE ARTIFACTS										4.6
A-PROJECTILE POINTS										
1 HARPOON HEADS		2							2	.3
2 LANCE POINTS (ICE PICKS?)		3							3	.4
3 SMALL BARBED POINTS		2		2					4	.5
B-SLEDGE RUNNERS										
		6							6	.8
C-AWLS & BODKINS										
		2							2	.3
D-NEEDLES										
		2							2	.3
E-WORKED FRAGMENTS										
		17							17	2.2
GROUP TOTAL PER SITE		34		2					36	
VII-MISC. CULTURAL MATERIALS										0.4
A-LIMONITE NODULES										
		1		1	1				3	
GROUP TOTAL PER SITE		1		1	1				3	
TOTAL ARTIFACTS PER SITE	10	506	20	36	128	22	42	17	781	= GRAND TOTAL
SITE TOTAL AS % OF GRAND TOTAL	1.3	64.7	2.6	4.6	16.4	2.8	5.4	2.2		
PORT AU CHOIX-1	PORT AU CHOIX-2	PORT AU CHOIX-5	PORT AU CHOIX-6	PORT AU CHOIX-7	KEPPEL ISLAND	NORRIS POINT-1	NORRIS POINT-2	TOTAL PER TYPE OR CLASS	GROUP % OF GRAND TOTAL	TYPE OR CLASS % OF GRAND TOTAL

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Fold

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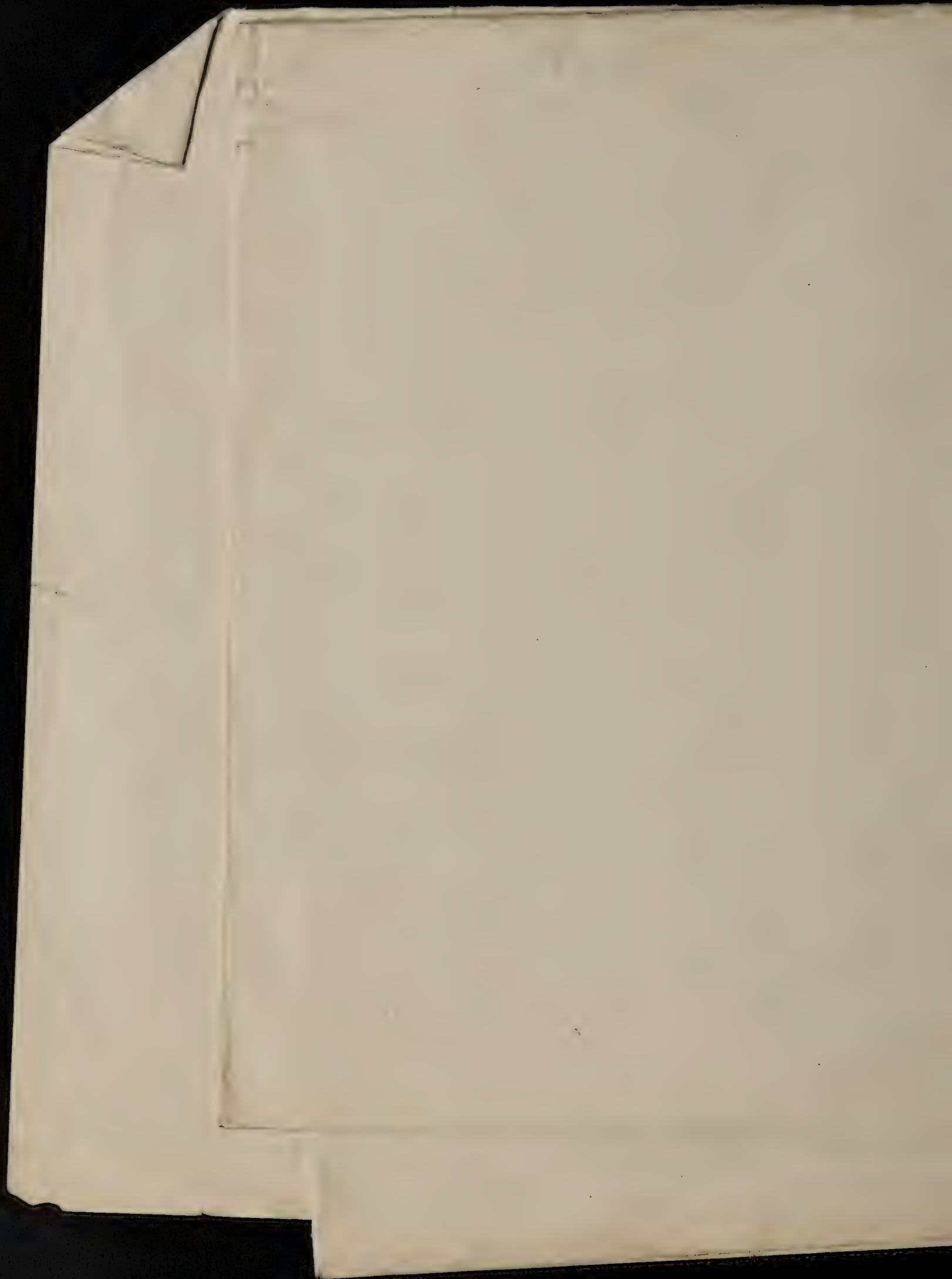
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Fractured bird bone cylinders
Ground surface
Dashed line
Long narrow contracting to base points
Narrow base uniformly, nicked point

PERFECT CROSS SECTION PAPER
12X12 TO ONE INCH
No. 335

EUGENE DITZEN CO., CHICAGO-NEW YORK

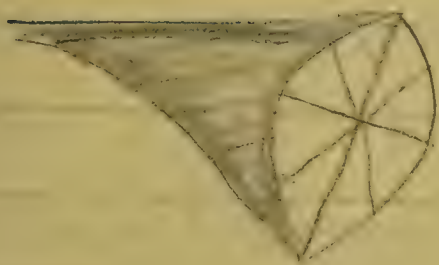


Kluane Lake Geology

5000-7000 Kluane reddest silt-

fuller, more active - part glacially formed
~~cap (slab) of siltstone & shales - some siltstone~~

Volcanic & Glacial activity & erosion - culminated
(Cochrane ?) - new lakes -
during, this period & after - then s.R. silt
piles up.



Manitoba & home

X-A
68. Sevensford has Mandan Pottery + Manitoban

1. Riverbank near + Sevensford - Manitoban
burial grounds

Manitoban R - Pottery + Mandan
Inns must look of shell

Storr mound - ~~everything but pottery~~
- lots of burial comp. - Bur.

Long mound - Manitoban pottery
cal. shell covered.

At Pass are Manitoban

Alberta X-C
Medicine Hat + Red Deer River - coast marked check
pottery and aboriginal pottery

Long Lake - 1 stone exposed.

- Grand Prairie - Seattle bluff

Look Moosejaw pottery like Alberta

Manitoban Pottery in area

Don't look pottery like Hayes site

Dundurn Manitoban different shell, many mounds
with date points -

- Only Middle Mandan in details at
SIS 7 - SE 17 Twp 18, R1, W 3

B.C. Interior

315-19 Lethbridge House (Long Point?) very
much like 1074 of Yukon

P. Canadensis - like point above One Kinnison &
below Toulmin

- North B.C. - one great Scott's Bluff
- North Shore of (Vancouver) Lake near mouth
Shore of Coquitlam Creek (a little
like P. Canadensis
& Vancouver)

B.C. Coast

Burrard Inlet - points like Moose

Prince Rupert - ground state like to come

Delkatta - Moose

Old Yakon - into Saanich Bay

West Saanich - Whelan - 1756 -

Duncan, B.C.

"

& Saanich B.C.

VIII - A

Newfoundland

Englee Reef. - stratified silt?
- Dorset Pt. Wapudale pt + granite
+ silted silted pt + edge
(ask for photos)

126 102

Shore on Long Island. Dorset shore with
iron + buckles (Dorset + Keokuk)
(ask Jenness?)

176-244 Port au Choix & Port Tail (Dorset)

245

Red Burn, Port Land Creek, Portland: Dorset

399-421

Norman Pt. - something different

New Brunswick VIII - B

★ Port au Prince - small waterway stream

Essex Harbour - Irons - like - shell fragments pt
224 silted silted pt

★

Mc Donald Farm - Irons - like - shell fragments
silted silted silted
silted silted silted

Port au Prince Island - South Pt. Silted silted silted

★

Quarry Island - Contrasting silted silted
some silted silted silted
lots of Dorset + silted silted

Chateaux silted silted

Cape North, Cape Breton Island
pre - silted silted silted

VIII - C

Prince Edward Island — ant. much

S.E. Robinson's Island. - contrary stem
suck + corner dentate - CW S
shrub??

VIII - D -

N.W. S

New Brunswick

Hudson, N.W. Miramichi River - Point Peron
— shrub??

Mulberry —

Quebec

Tadoussac

Pointe à la Croix

Saguenay Co.

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and [unclear] [unclear]

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ARCHAEOLOGY OF INTERIOR CANADA
(SPEECH WITH SLIDES)

